

#11



PCT09

RAW SEQUENCE LISTING                      DATE: 10/24/2002  
 PATENT APPLICATION: US/09/914,106B      TIME: 15:50:02

Input Set : A:\20397P - sequence listing.txt  
 Output Set: N:\CRF4\10242002\I914106B.raw

ENTERED

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4 <110> APPLICANT: Howard, Andrew D.
5   O'Neill, Gary P.
6   O'Dowd, Brian
7   George, Susan
9 <120> TITLE OF INVENTION: G PROTEIN-COUPLED RECEPTOR
10  RESEMBLING-GALANIN RECEPTORS
12 <130> FILE REFERENCE: 20397P
14 <140> CURRENT APPLICATION NUMBER: 09/914,106B
15 <141> CURRENT FILING DATE: 2001-08-23
17 <150> PRIOR APPLICATION NUMBER: PCT/US00/04416
18 <151> PRIOR FILING DATE: 2000-02-22
20 <150> PRIOR APPLICATION NUMBER: 60/121,651
21 <151> PRIOR FILING DATE: 1999-02-24
23 <160> NUMBER OF SEQ ID NOS: 12
25 <170> SOFTWARE: FastSEQ for Windows Version 4.0
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 1197
29 <212> TYPE: DNA
30 <213> ORGANISM: Homo Sapiens
32 <400> SEQUENCE: 1
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34 ggctgccggc gctgtggcgc caacgcctcg gacggcccaag tcccttcgcc gcggggccgtg      120
35 gacgcctggc tcgtgcgcct ctctcttcgcg gcgctgatgc tgctgggcct ggtggggaac      180
36 tcgctgtgta tctacgtcat ctgccgccac aagccgatgc ggaccctgac caactcttac      240
37 atcgccaacc tggcggccac ggaagtgaac ttctcctgt gctgcgtccc cttaacggcc      300
38 ctgctgtacc cgctgccggg ctgggtgctg ggcgaactta tgtgcaagt ctgtaactac      360
39 atccagcagg tctcggtgca ggccacgtgt gccactctga ccgccatgag tgtggacgcg      420
40 tggtagctga cgggtgtccc gttgcgcgcc ctgcaccgcc gcaacgcccg cctggcgctg      480
41 gctgtcagcc tcagcatctg ggtagcgctct gcggcggtgt ctgcgcgcgt gctcgcctcg      540
42 caccgcctgt caccggggcc gcgcgcctac tgcagtgaag ccttccccag ccgcgcctcg      600
43 gagcgccct tcgcactgta caactcgtct gcgctgtacc tgctgcgcgt gctgcgccac      660
44 tgcgcctgct atgcggccat gctgcgccac ctggggccggg tcgcccgtgc ccccgcgccc      720
45 gccgatagcg cctctgcagg gcagggtgct gcaagagcgc cagggcgcgt gcgggccaag      780
46 gtctgcggcg tggtagcggc cgtggtcctg ctcttcgccg cctgctgggg cccactccag      840
47 ctgttctcgg tgctgcaggc gctgggcccc gcgggctcct ggacccaacg cagctacgcc      900
48 gcctaacgcg ttaagacctg ggctcactgc atgtcctaca gcaactccgc gctgaacccg      960
49 ctgtcttacg ccttctctgg ctcgcacttc cgacaggcct tcgcgcgcgt ctgccctctg      1020
50 gcgcgcggcc gcccccgcgc ccccgccggg cccggaccct cggaccccgc agccccacac      1080
51 gcggagctgc tcgcgcggc gtcccaaccc gcccccgcga gggcgagaa gccaggagag      1140
52 agtgggctgg ccgcgcggcg gctgtgcgtc ctggggggagg acaacgcccc tctctgta      1197
54 <210> SEQ ID NO: 2
55 <211> LENGTH: 1254
56 <212> TYPE: DNA

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57 <213> ORGANISM: Rattus Rattus
59 <400> SEQUENCE: 2
60 ccacagtcgcc aggaagcaat ctgtgaaggc tgcctggagg aggaggaggc cgacagggcc      60
61 atggccgcag aggcgacgtt gggtcggaac gtgagctggt gggctccgtc caacgcttcg      120
62 ggaatgcccg gctgcgggtg caatgcctcg gatggcccag gctccgggcc aaggccctcg      180
63 gtagcctggc tgggtccccc gtttttcgct gccctaatgt tgcctggggc agtcgggaac      240
64 tcaactggta tcttcgttat ctgccgccac aagcacatgc agaccgtcac caattttcac      300
65 atcgctaacc tggcggccac agatgtcaact ttccttcgtg gctgcgtacc ctccaccgcg      360
66 ctctctatc cctgcgccac ctgggtgctg ggagacttca tgtgcaaat cgtcaactac      420
67 atccagcagg tctcgtgtga agccacatgt gccactttga cagccatgag tgtggaccgc      480
68 tggtagctga ctgtgttccc gctgcgtgca cttcacgcgc gaactccgcg cctggccctg      540
69 actgtcagcc ttacgtatctg ggtgggttcc gcagctgttt ccgccccggt gctggctctg      600
70 caccgcctgt cgccggggcc tcacacctac tgcagtgaag cgctgtgacg ccgtgccctg      660
71 gagcgcgctt tgcgctctca caacctgctg gccctatacc tgcctgcgct gctcgccacc      720
72 tgcgcctgct acggtgccat gctgcgccac ctgggccgcg ccgctgtatc gccgcacccc      780
73 actgatggcg cctcgcaggg gcagctgcta gcacagcgcg ctggagcagt gcgcaccaag      840
74 gtcctccggc tggtagccgc tgtcgtcctg ctcttcgccc cctctgcccg ccgatccag      900
75 ctgttccctg tgcttcaagc cctgcgcctc gggggcctcg caccctcgaa gctatgcgcc      960
76 tacgcgtcca agatctggcg tcaactgcat tctacagca attctgcgct caaccgcgtc      1020
77 ctctatgctt cctgggttcc caacttcaga caggccttct gccgcgtgtg cccctgcggc      1080
78 ccgcaacgcc agcgtcgccc ccacgcgtca gcgcactcgg accgagcgcc accccatagt      1140
79 gtgccgcaca gccgggctgc gcacctgtc cggttcagga ccccgcagcc tgggaacctt      1200
80 gtggtgcact cgccctctgt tcaggatgaa cacactgccc cactctgagc tgcc      1254
82 <210> SEQ ID NO: 3
83 <211> LENGTH: 398
84 <212> TYPE: PRT
85 <213> ORGANISM: Homo Sapiens
87 <400> SEQUENCE: 3
88 Met His Thr Val Ala Thr Ser Gly Pro Asn Ala Ser Trp Gly Ala Pro
89 1 5 10 15
90 Ala Asn Ala Ser Gly Cys Pro Gly Cys Gly Ala Asn Ala Ser Asp Gly
91 20 25 30
92 Pro Val Pro Ser Pro Arg Ala Val Asp Ala Trp Leu Val Pro Leu Phe
93 35 40 45
94 Phe Ala Ala Leu Met Leu Leu Gly Leu Val Gly Asn Ser Leu Val Ile
95 50 55 60
96 Tyr Val Ile Cys Arg His Lys Pro Met Arg Thr Val Thr Asn Phe Tyr
97 65 70 75 80
98 Ile Ala Asn Leu Ala Ala Thr Asp Val Thr Phe Leu Leu Cys Cys Val
99 85 90 95
100 Pro Phe Thr Ala Leu Leu Tyr Pro Leu Pro Gly Trp Val Leu Gly Asp
101 100 105 110
102 Phe Met Cys Lys Phe Val Asn Tyr Ile Gln Gln Val Ser Val Gln Ala
103 115 120 125
104 Thr Cys Ala Thr Leu Thr Ala Met Ser Val Asp Arg Trp Tyr Val Thr
105 130 135 140
106 Val Phe Pro Leu Arg Ala Leu His Arg Arg Thr Pro Arg Leu Ala Leu
107 145 150 155 160
108 Ala Val Ser Leu Ser Ile Trp Val Gly Ser Ala Ala Val Ser Ala Pro

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109                               165                               170                               175
110 Val Leu Ala Leu His Arg Leu Ser Pro Gly Pro Arg Ala Tyr Cys Ser
111                               180                               185                               190
112 Glu Ala Phe Pro Ser Arg Ala Leu Glu Arg Ala Phe Ala Leu Tyr Asn
113                               195                               200                               205
114 Leu Leu Ala Leu Tyr Leu Leu Pro Leu Leu Ala Thr Cys Ala Cys Tyr
115                               210                               215                               220
116 Ala Ala Met Leu Arg His Leu Gly Arg Val Ala Val Arg Pro Ala Pro
117 225                               230                               235                               240
118 Ala Asp Ser Ala Leu Gln Gly Gln Val Leu Ala Glu Arg Ala Gly Ala
119                               245                               250                               255
120 Val Arg Ala Lys Val Ser Arg Leu Val Ala Ala Val Val Leu Leu Phe
121                               260                               265                               270
122 Ala Ala Cys Trp Gly Pro Ile Gln Leu Phe Leu Val Leu Gln Ala Leu
123                               275                               280                               285
124 Gly Pro Ala Gly Ser Trp His Pro Arg Ser Tyr Ala Ala Tyr Ala Leu
125                               290                               295                               300
126 Lys Thr Trp Ala His Cys Met Ser Tyr Ser Asn Ser Ala Leu Asn Pro
127 305                               310                               315                               320
128 Leu Leu Tyr Ala Phe Leu Gly Ser His Phe Arg Gln Ala Phe Arg Arg
129                               325                               330                               335
130 Val Cys Pro Cys Ala Pro Arg Arg Pro Arg Arg Pro Arg Arg Gly
131                               340                               345                               350
132 Pro Ser Asp Pro Ala Ala Pro His Ala Glu Leu Leu Arg Leu Gly Ser
133                               355                               360                               365
134 His Pro Ala Pro Ala Arg Ala Gln Lys Pro Gly Ser Ser Gly Leu Ala
135                               370                               375                               380
136 Ala Arg Gly Leu Cys Val Leu Gly Glu Asp Asn Ala Pro Leu
137 385                               390                               395
139 <210> SEQ ID NO: 4
140 <211> LENGTH: 395
141 <212> TYPE: PRT
142 <213> ORGANISM: Rattus Rattus
144 <400> SEQUENCE: 4
145 Met Ala Ala Glu Ala Thr Leu Gly Pro Asn Val Ser Trp Trp Ala Pro
146 1                               5                               10                               15
147 Ser Asn Ala Ser Gly Cys Pro Gly Cys Gly Val Asn Ala Ser Asp Gly
148                               20                               25                               30
149 Pro Gly Ser Ala Pro Arg Pro Leu Asp Ala Trp Leu Val Pro Leu Phe
150                               35                               40                               45
151 Phe Ala Ala Leu Met Leu Leu Gly Leu Val Gly Asn Ser Leu Val Ile
152                               50                               55                               60
153 Phe Val Ile Cys Arg His Lys His Met Gln Thr Val Thr Asn Phe Tyr
154 65                               70                               75                               80
155 Ile Ala Asn Leu Ala Ala Thr Asp Val Thr Phe Leu Leu Cys Cys Val
156                               85                               90                               95
157 Pro Phe Thr Ala Leu Leu Tyr Pro Leu Pro Thr Trp Val Leu Gly Asp
158                               100                              105                              110
159 Phe Met Cys Lys Phe Val Asn Tyr Ile Gln Gln Val Ser Val Gln Ala

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160          115          120          125
161 Thr Cys Ala Thr Leu Thr Ala Met Ser Val Asp Arg Trp Tyr Val Thr
162          130          135          140
163 Val Phe Pro Leu Arg Ala Leu His Arg Arg Thr Pro Arg Leu Ala Leu
164 145          150          155          160
165 Thr Val Ser Leu Ser Ile Trp Val Gly Ser Ala Ala Val Ser Ala Pro
166          165          170          175
167 Val Leu Ala Leu His Arg Leu Ser Pro Gly Pro His Thr Tyr Cys Ser
168          180          185          190
169 Glu Ala Phe Pro Ser Arg Ala Leu Glu Arg Ala Phe Ala Leu Tyr Asn
170          195          200          205
171 Leu Leu Ala Leu Tyr Leu Leu Pro Leu Leu Ala Thr Cys Ala Cys Tyr
172          210          215          220
173 Gly Ala Met Leu Arg His Leu Gly Arg Ala Ala Val Arg Pro Ala Pro
174 225          230          235          240
175 Thr Asp Gly Ala Leu Gln Gly Gln Leu Leu Ala Gln Arg Ala Gly Ala
176          245          250          255
177 Val Arg Thr Lys Val Ser Arg Leu Val Ala Ala Val Val Leu Leu Phe
178          260          265          270
179 Ala Ala Cys Trp Gly Pro Ile Gln Leu Phe Leu Val Leu Gln Ala Leu
180          275          280          285
181 Pro Leu Gly Gly Leu Ala Pro Ser Lys Leu Cys Ala Tyr Ala Leu Lys
182          290          295          300
183 Ile Trp Ala His Cys Met Ser Tyr Ser Asn Ser Ala Leu Asn Pro Leu
184 305          310          315          320
185 Leu Tyr Ala Phe Leu Gly Ser His Phe Arg Gln Ala Phe Cys Arg Val
186          325          330          335
187 Cys Pro Cys Gly Pro Gln Arg Gln Arg Arg Pro His Ala Ser Ala His
188          340          345          350
189 Ser Asp Arg Ala Ala Pro His Ser Val Pro His Ser Arg Ala Ala His
190          355          360          365
191 Pro Val Arg Val Arg Thr Pro Glu Pro Gly Asn Pro Val Val His Ser
192          370          375          380
193 Pro Ser Val Gln Asp Glu His Thr Ala Pro Leu
194 385          390          395
196 <210> SEQ ID NO: 5
197 <211> LENGTH: 346
198 <212> TYPE: PRT
199 <213> ORGANISM: Rattus Rattus
201 <400> SEQUENCE: 5
202 Met Glu Leu Ala Pro Val Asn Leu Ser Glu Gly Asn Gly Ser Asp Pro
203 1          5          10          15
204 Glu Pro Pro Ala Glu Pro Arg Pro Leu Phe Gly Ile Gly Val Glu Asn
205          20          25          30
206 Phe Ile Thr Leu Val Val Phe Gly Leu Ile Phe Ala Met Gly Val Leu
207          35          40          45
208 Gly Asn Ser Leu Val Ile Thr Val Leu Ala Pro Ser Lys Pro Gly Lys
209          50          55          60
210 Pro Arg Ser Thr Thr Asn Leu Phe Ile Leu Asn Leu Ser Ile Ala Asp

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211 65              70              75              80
212 Leu Ala Tyr Leu Leu Phe Cys Ile Phe Phe Gln Ala Thr Val Tyr Ala
213              85              90              95
214 Leu Pro Thr Trp Val Leu Gly Ala Phe Ile Cys Lys Phe Ile His Tyr
215              100              105              110
216 Phe Phe Thr Val Ser Met Leu Val Ser Ile Phe Thr Leu Ala Ala Met
217              115              120              125
218 Ser Val Asp Arg Tyr Val Ala Ile Val His Ser Arg Arg Ser Ser Ser
219              130              135              140
220 Leu Arg Val Ser Arg Asn Ala Leu Leu Gly Val Gly Phe Ile Trp Ala
221 145              150              155              160
222 Leu Ser Ile Ala Met Ala Ser Pro Val Ala Tyr Tyr Gln Arg Leu Phe
223              165              170              175
224 His Arg Asp Ser Asn Gln Thr Phe Cys Trp Glu His Trp Pro Asn Gln
225              180              185              190
226 Leu His Lys Lys Ala Tyr Val Val Cys Thr Phe Val Phe Gly Tyr Leu
227              195              200              205
228 Leu Pro Leu Leu Leu Ile Cys Phe Cys Tyr Ala Lys Val Leu Asn His
229              210              215              220
230 Leu His Lys Lys Leu Lys Asn Met Ser Lys Lys Ser Glu Ala Ser Lys
231 225              230              235              240
232 Lys Lys Thr Ala Gln Thr Val Leu Val Val Val Phe Gly Ile
233              245              250              255
234 Ser Trp Leu Pro His His Val Ile His Leu Trp Ala Glu Phe Gly Ala
235              260              265              270
236 Phe Pro Leu Thr Pro Ala Ser Phe Phe Arg Ile Thr Ala His Cys
237              275              280              285
238 Leu Ala Tyr Ser Asn Ser Ser Val Asn Pro Ile Ile Tyr Ala Phe Leu
239              290              295              300
240 Ser Glu Asn Phe Arg Lys Ala Tyr Lys Gln Val Phe Lys Cys Arg Val
241 305              310              315              320
242 Cys Asn Glu Ser Pro His Gly Asp Ala Lys Glu Lys Asn Arg Ile Asp
243              325              330              335
244 Thr Pro Pro Ser Thr Asn Cys Thr His Val
245              340              345
247 <210> SEQ ID NO: 6
248 <211> LENGTH: 372
249 <212> TYPE: PRT
250 <213> ORGANISM: Rattus Rattus
252 <400> SEQUENCE: 6
253 Met Asn Gly Ser Gly Ser Gln Gly Ala Glu Asn Thr Ser Gln Glu Gly
254 1              5              10              15
255 Gly Ser Gly Gly Trp Gln Pro Glu Ala Val Leu Val Pro Leu Phe Phe
256              20              25              30
257 Ala Leu Ile Phe Leu Val Gly Thr Val Gly Asn Ala Leu Val Leu Ala
258              35              40              45
259 Val Leu Leu Pro Gly Gly Gln Ala Val Ser Thr Thr Asn Leu Phe Ile
260              50              55              60
261 Leu Asn Leu Gly Val Ala Asp Leu Cys Phe Ile Leu Cys Cys Val Phe

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VERIFICATION SUMMARY                      DATE: 10/24/2002  
PATENT APPLICATION:    US/09/914,106B      TIME: 15:50:03  
  
Input Set : A:\20397P - sequence listing.txt  
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